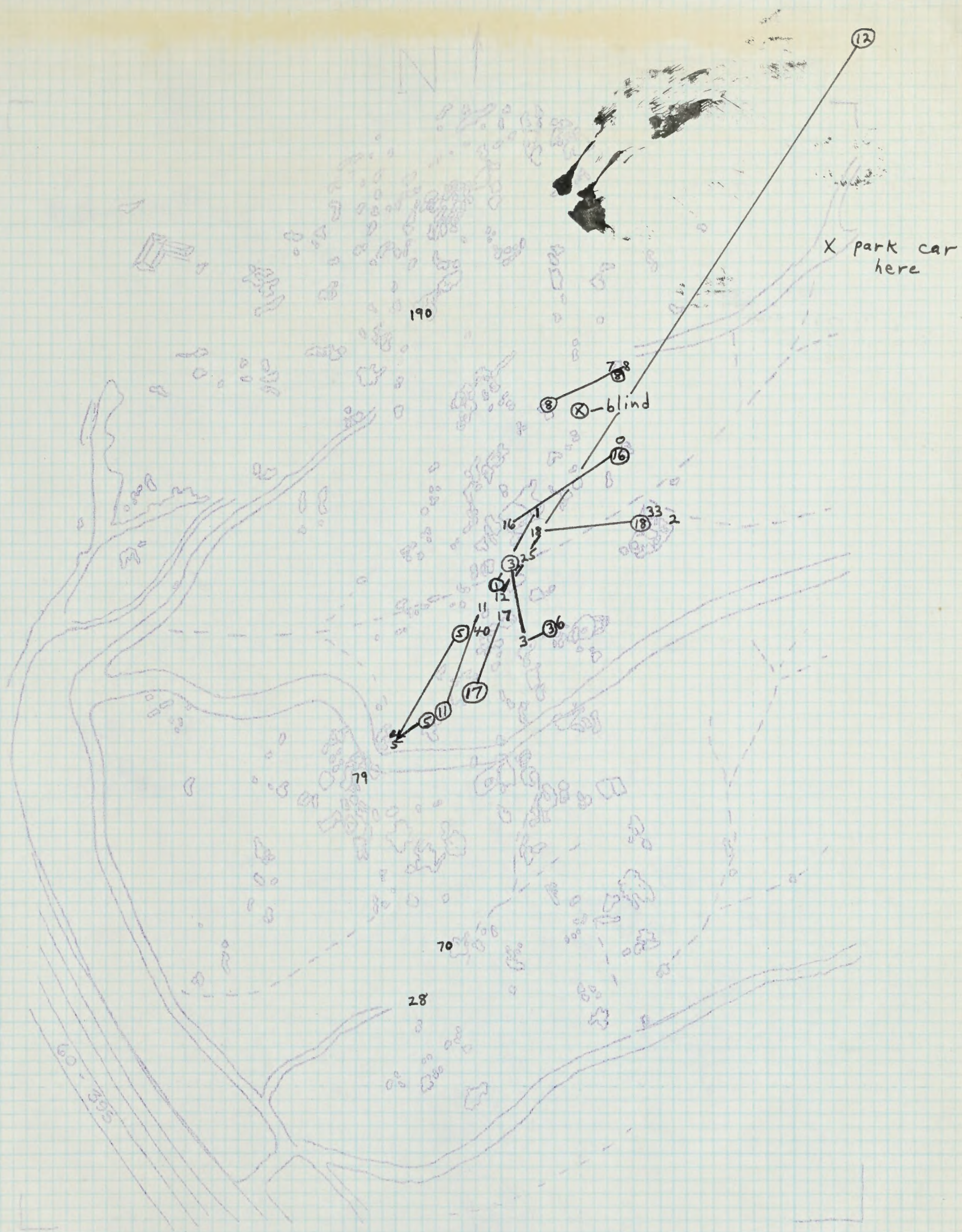


Capture Locations, 1958 (Sceloporus orcutti)



(29) = recapture site, 1961.

Capture Locations, 1958 (Sceloporus orcutti)





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CLIR

<https://archive.org/details/reptilecaptureda00mayh>

Capture Locations, 1958 (*Sceloporus orcutti*)



②⑨ = recapture site, 1961.

Phrynosoma
m'calli



I.R. - 13 8 1/2 x 11



Phrynosoma
m'calli

PHRYNOSOMA M'CALLI
(MARCH, 1961)

TIME	ON SURFACE	HEAD OUT	BENEATH SURFACE
0700			
0730			
0800			
0830			
0900			
0930			
1000			
1030			
1100			
1130			
1200			
1230			
1300			
1330			
1400			
1430			
1500			
1530			
1600			
1630			
1700			
1730			
1800			
1830			
1900			
1930			
2000			
2030			
2100			
2130			
2335			

PHRYNOSOMA M'CALLI

(FEBRUARY, 1961)

TIME	ON SURFACE	HEAD OUT	BENEATH SURFACE
0700			
0730			
0800	 		
0830	 		
0900			
0930			
1000			
1030	 		
1100			
1130			
1200			
1230			
1300			
1330			
1400			
1430			
1500	 		
1530			
1600	 		
1630			
1700			
1730			
1800			
1830			
1900			
1930			
2000			
2030			
2100			
2130			
2320			

PHRYNOSOMA M'CALLI
(JANUARY, 1961)

TIME	ON SURFACE	HEAD OUT	BENEATH SURFACE
0700			
0730			I
0800			I
0830		I	VI
0900		I	I
0930			
1000			
1030		I	
1100			
1130			
1200			
1230			
1300			
1330			
1400			
1430			
1500			
1530			
1600			I
1630			
1700			
1730			
1800			
1830			
1900			
1930			
2000			
2030			
2100			
2130			

PHRYNOSOMA M'CALLI
(DECEMBER, 1960)

TIME	ON SURFACE	HEAD OUT	BENEATH SURFACE
0700			
0730	 	 	
0800	 		
0830	 		
0900	 		
0930			
1000			
1030			
1100			
1130	 		
1200			
1230			
1300	 		
1330	 		
1400			
1430			
1500			
1530	 		
1600			
1630			
1700			
1730			
1800			
1830			
1900			
1930			
2000			
2030			
2100			
2130			



PHRYNOSOMA M'CALLI
(NOVEMBER, 1960)

TIME	ON SURFACE	HEAD OUT	BENEATH SURFACE
0700			
0730			
0800			
0830			
0900			
0930			
1000			
1030			
1100			
1130			
1200			
1230			
1300			
1330			
1400			
1430			
1500			
1530			
1600			
1630			
1700			
1730			
1800			
1830			
1900			
1930			
2000			
2030			
2100			
2130			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

PHRYNOSOMA M'CALLI

(September, 1960)
(October, 1960)

Time	ON SURFACE	HEAD OUT	BENEATH SURFACE
0700			
0730			
0800			
0830			
0900			
0930			
1000			
1030			
1100			
1130			
1200			
1230			
1300			
1330			
1400			
1430			
1500			
1530			
1600			
1630			
1700			
1730			
1800			
1830			
1900			
1930			
2000			
2030			
2100			
2130			
2330			

Phrynosoma m'calli Laboratory Summary

Activity

1639 observations during 360 periods on 11 lizards (9 - Glamis; 2 P. Spgs.).

212 substrate temps. with Schultheis thermometer during same periods measured beside lizards.

With Brown Recorder

35 lizards measured (6 replications) during 14 days (34 - Glamis; 1 - [ad ♂] Palm Spgs.)

27 Adults (14 ♂; 13 ♀)

5 Immatures (1 ♂; 4 ♀)

3 Juveniles (1 ♂; 2 ♀)

857 substrate temps.

858 cloacal temps.

Time Held Before Recording (weeks)

	<u>< 1</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>12</u>
Ad ♂	9		3		2	
Ad ♀	8		1	1	3	
Im ♂			1			
Im ♀	1			2		1
Juv ♂	1					
Juv ♀	1	1				

(P.S. ad ♂ held < 1 week)

②		9/29/60		1130		9/29/60		1630		9/30/60		0810 ← lights on		9/30/60		1140	
26.0	32.0	48.0	49.0	38.5	40.5	41.0	31.5	27.5	33.0	50.0	51.0	40.0	43.0	42.5	33.0	29.0	
G		ⓐP		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
P		I		P		G		G		G		G		G		G	
21.5	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	
G		ⓐ		G		G		G		G		G		G		G	
ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
G		G		G		G		G		G		G		G		G	
ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ		ⓐ	
I		I		I		I		I		I		I		I		I	
PG		ⓐ		ⓐ													

③

39. D

31.0

Date 9/30/60
Time 1505

9/30/60
1655

Date 10/2/60
Time 1100 (no lights on)
Before

Before

557

Date 10/3/60
Time 1130

AT 0930 on 10/3/60, 1 Dipsosaurus dorsalis, 3 Uma inornata added to cage III.

Date 10/3/60
Time 1655

Date 10/4/60
Time 0800

(lights on)
at 0810

Doc 10/4/60
Time 0820

Date 10/4/60
Time [REDACTED] 1130

[illegible]

Hand-drawn map of a rectangular area divided into four quadrants by a vertical line at 21.0 and a horizontal line at 21.0. The quadrants are labeled D (top-left), I (top-right), G (bottom-left), and I (bottom-right). The map includes various symbols: circled 'G's, circled 'I's, and a circled 'P'. The horizontal axis is labeled with 20.5, 21.0, 21.0, 21.0, 21.0, 21.0, and 21.0. The vertical axis is labeled with 20.5, 21.0, 21.0, 21.0, 21.0, 21.0, and 21.0.

[illegible]

	27.5	40.0	47.0	29.0	25.0	32.0	34.5	33.5-
(G)			G			D	S	
(G)			(GG)			G		

Diposaurus changed from III to II at 1130.

6 Ula inornata added to III at 1300.

Date 10/4/60
Time 1530

Date 10/4/60
Time 1700

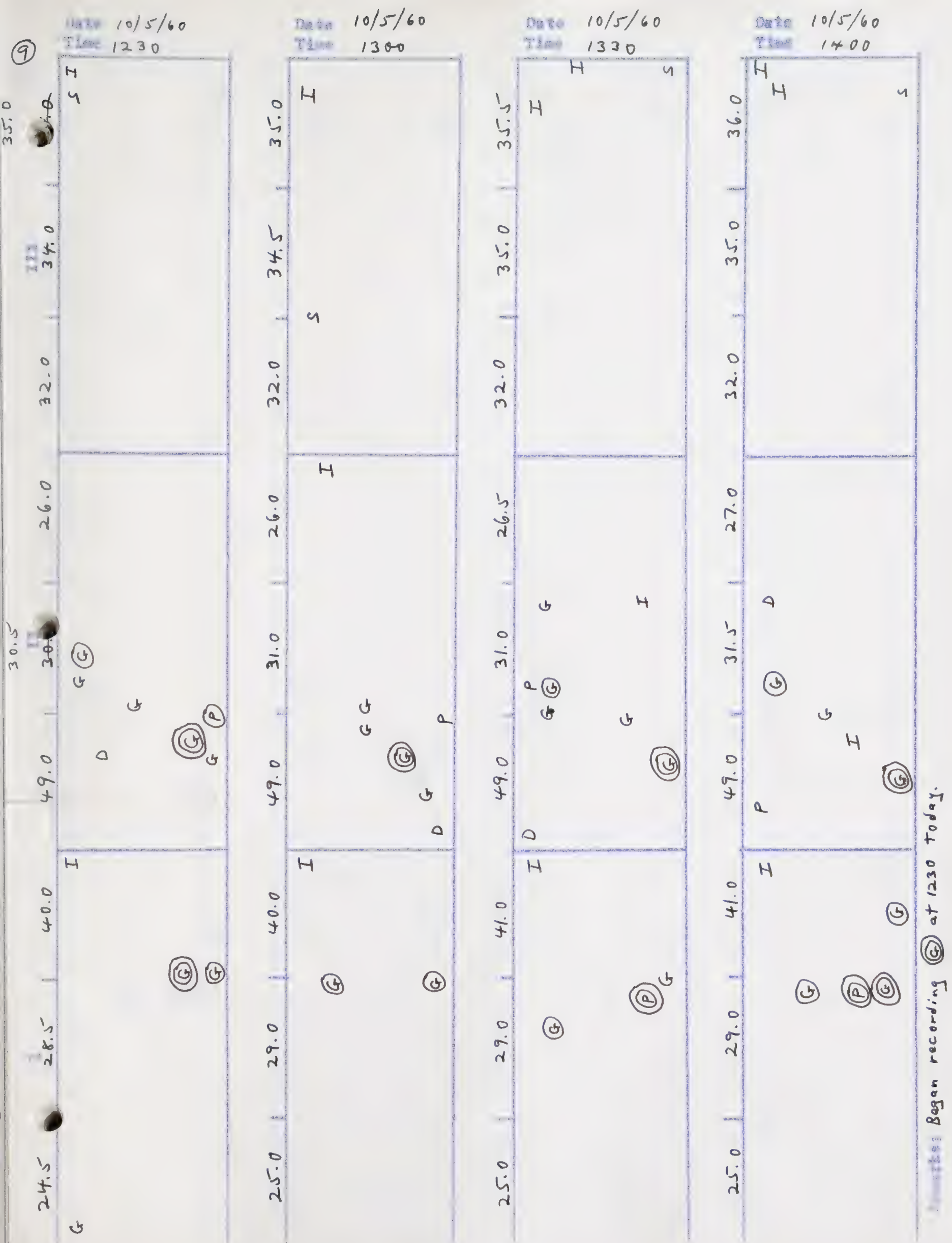
Date 10/5/60
Time 0805 (lights on 0813)

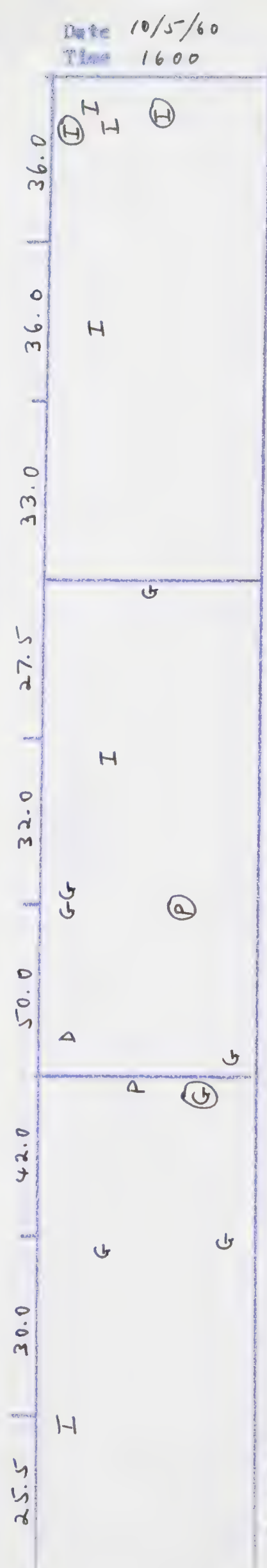
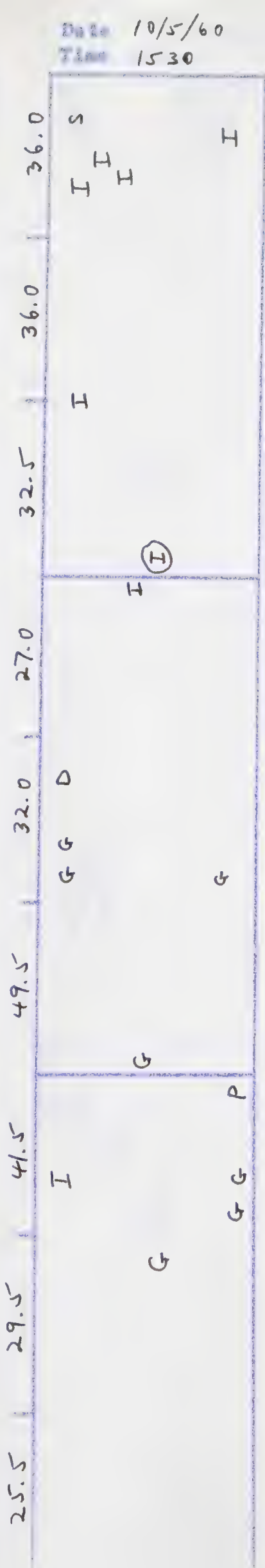
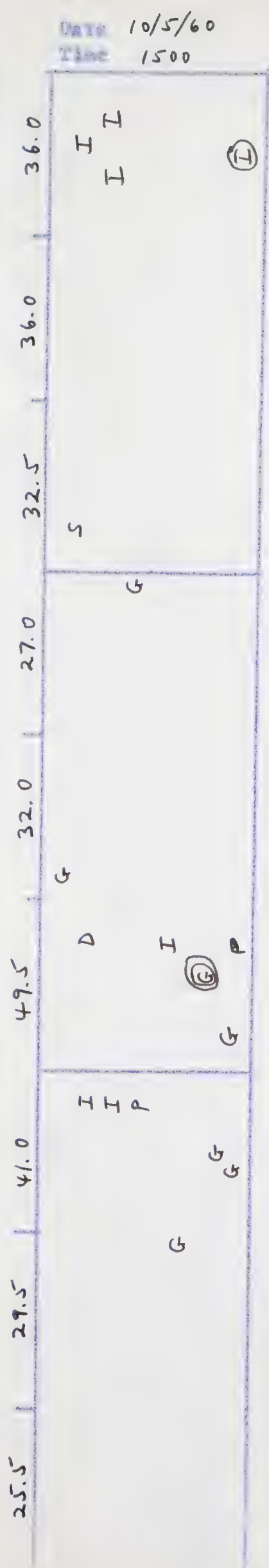
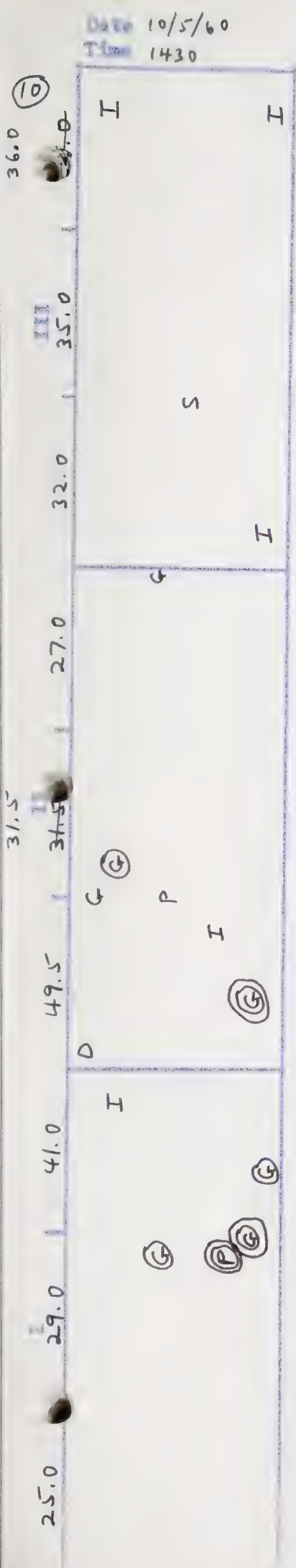
24.5	29.0	41.0	I	49.0	D	31.0	31.0	26.0	G	P	No Light
------	------	------	---	------	---	------	------	------	---	---	-------------

	28.0	42.0	49.0	31.0	26.0
24.5	I Ⓔ	I P	D I G	G	No Light

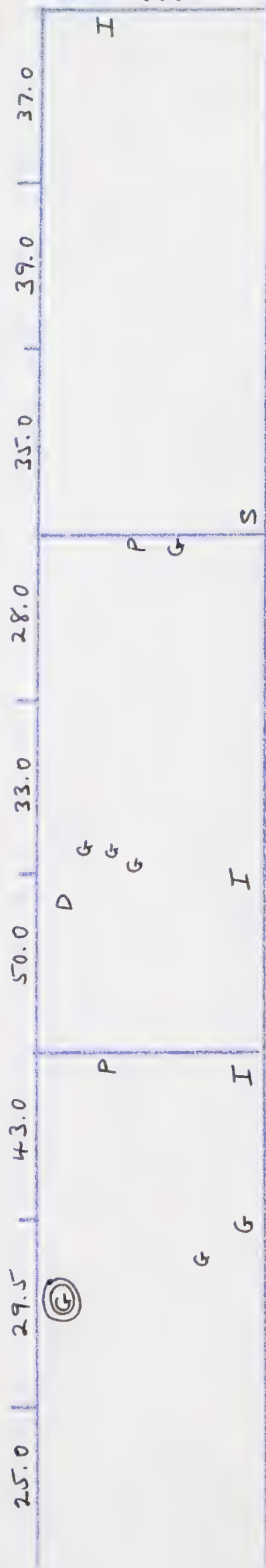
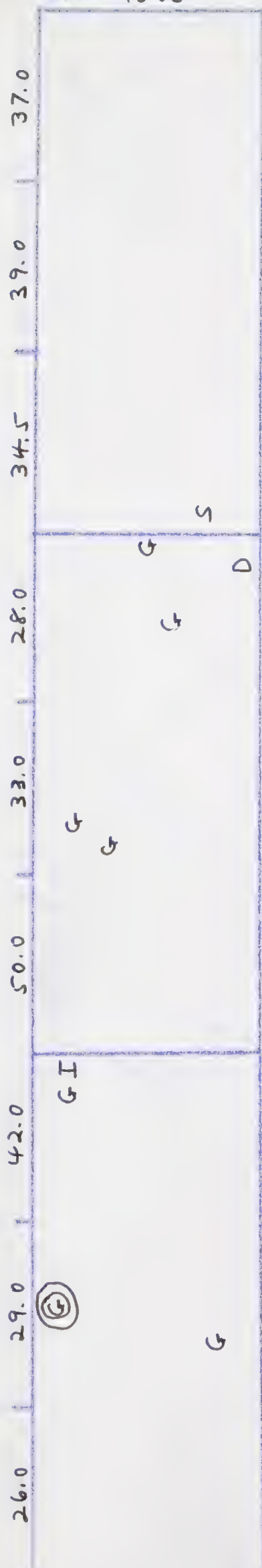
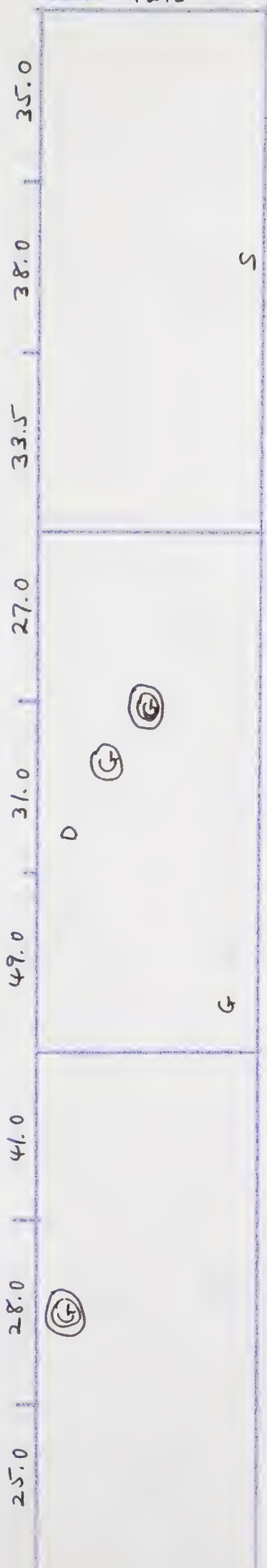
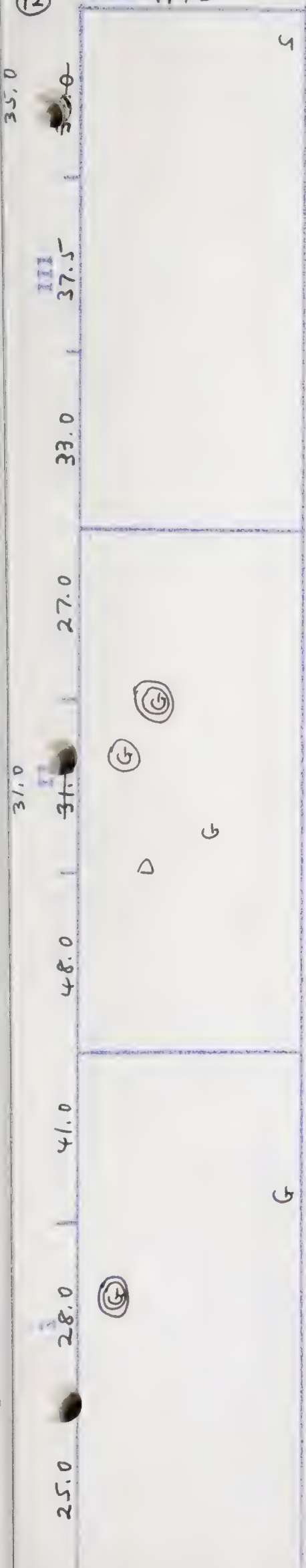
[illegible][illegible]

Numbers near animal indicate time that animal emerged from sand. H. out = head out of sand.
out = entire animal out of sand.





10/6/60
1600



All but 3 Uma inornata removed from cage III at 1400 today.

13

Date 10/6/60
Time 1700

Date 10/10/60
Time 0830

Date 10/10/60
Time 1200

Date 10/10/60
Time 1430

37.0

III

26.0	30.0	42.0	50.0	33.0	28.0	35.0	39.5	24.0
G	D	P	G	G I	G	I	I	I
G	G	I	P	I	G			

(lights on at 0810 after 3 days of no lights)

19.5	20.5	29.5	28.0	22.0	20.5	23.0	25.0	25.0
G	(G)	I	D	G	G	I	I	I
(G)	P	G	G	G	G			

23.0	26.0	40.5	45.0	28.0	24.0	29.5	33.5	33.0
G	(G)	(G)	(G)	G G			I	I
	I	D	G	G			S	I

23.5	27.5	43.5	44.5	29.0	25.0	31.0	35.0	33.5
I	G	(G)	G	G	G	(I)	I	I
G	G	I	D	P				

25

60 (lights off at 2020 — overhead lights still on.)

16

Date 10/11/60
Time 2325

Date 10/12/60
Time 0805 (lights on at 0810)

Date 10/12/60
Time 0820

Date 10/12/60
Time 1200

25.5

24.5

26.0

24.5

24.0

24.5

26.5

26.0

24.5

23.5

G (G)

(G)

23.0

23.0

22.5

22.5

23.0

23.0

22.5

22.5

22.0

S

H.out-0819
I buried
out-0820
I buried
out-0819

D (G) 0820

G

G

0817 (G)

(P) 0821

(G) 0814

G

G

26.5

27.0

25.0

23.0

25.0

27.0

28.5

24.0

22.5

I

S

I

I buried
out-0825

G

G

D

P

G

G

G

G

G

G

(all active)

34.5

37.0

32.5

26.0

30.0

44.0

44.5

30.0

25.0

S

(all are quiet)

(G)

(G)

G

P

D

G (G)

(G)

Remarks:

22.0

21.5

Copyright
Library
1992

	21.0	21.5	21.5	22.0	21.0	21.5	22.0	
	(G) 0835	(G) 0833	P	(G) 0817 G	(P) 0820 G	(G) 0820 G	(I) 0810 G	H. out - 0830 (I buried) out - 0834 (S) 0810 (I) 0827
								DATE 10/13/60 TIME 0800 (lights 08)

I

G G P G

(by 0820, all above ground were active)

G G P

I

[illegible]

(all quiet)

G

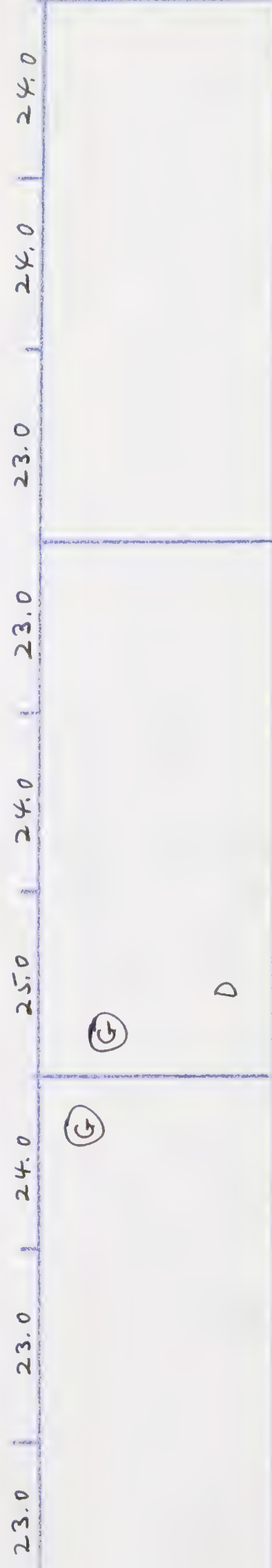
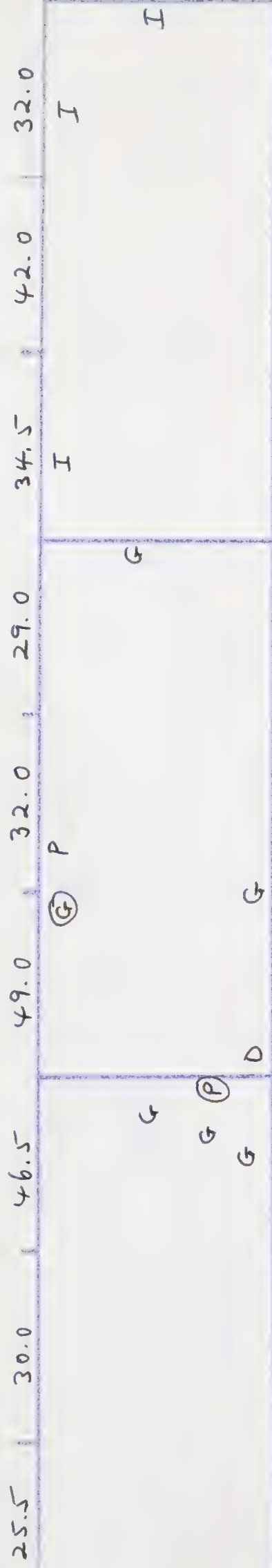
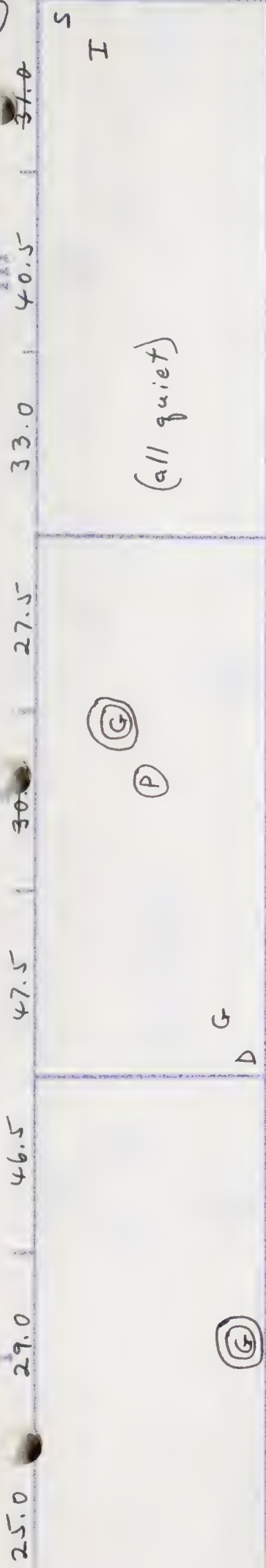
P

G

G

I

H



Date	Time	Notes
10/14/60	0820	(lights on)
10/14/60	0830	
10/14/60	1030	
10/14/60	1210	

34.0
20

Date	10/14/60
Time	1600

27.0	32.0	41.0	49.5	33.0	30.0	35.5	42.0	34.0
G	G	G I	D G	G	P G	I	I	I

Date	10/17/60
Time	0830

22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
G	I buried-0843	out-0836 I buried	G	out-0836 G buried P out-0843	G	G	(all quiet)	S 0834

Date	10/17/60
Time	0845

22.0	24.5	33.0	27.0	25.0	24.0	25.0	28.0	25.0
G	G	G	G G	G	G	(all quiet)	S	

(lights on-0810)

Date	10/18/60
Time	0840

23.0	26.0	37.0	31.5	27.0	25.5	27.5	31.0	26.0
G	G	G	G	G	G	I	S	I

1000
191

22.0

22.

22.

22.5

Date 11/10/60
Time 1245

[illegible][illegible]

	29.0	47.0	40.0	30.0	30.0	38.0	30.0
(G)							
(all quiet but this one) → G							
(G)							
G							
(G)							
(G)							
D							
S							

A hand-drawn graph on a grid. The horizontal axis (X-axis) is labeled with values 27.0, 30.5, 42.0, 31.0, 34.0, and 31.0. The vertical axis (Y-axis) is labeled with values 27.0, 30.5, 42.0, 31.0, 34.0, and 31.0. A vertical line is drawn at X=31.0. A horizontal line is drawn at Y=31.0. The graph contains the following points:

- A point labeled 'G' at (27.0, 31.0).
- A point labeled 'D' at (31.0, 34.0).
- A point labeled 'S' at (31.0, 39.0).
- A point labeled 'G' at (31.0, 31.0).
- A point labeled 'G' at (31.0, 31.0).

1 Phrynosoma m'calli died (#6) in cage I on 11/7/60.
Dipsosaurus dorsalis changed from cage II to cage III on 11/9/60.

2007

11/16/60
0930

22.5

22.5	22.5	22.5	22.0	22.2	22.5
	(G)	(E)		D	(H)

23.0	23.5	28.0	30.0	25.0	26.0	29.0	25.0
 G P G G G	P G G G G	G G G G G	G G G G G	G G G G G	D I I I I	I I I I I	I I I I I

	27.0	28.0	29.0	33.0	27.0
I	(G)	(G)	A (G)	I I I S D I	I
G	(G)	(G)	(G)		
(active bath)					
24.0	25.5	35.0	36.0	27.0	28.0
	(G) (G)	(G)	(G)	(G)	(G)

[illegible]

1910

1911

1912

1913

1910

1911

1912

1913

1910

1911

1912

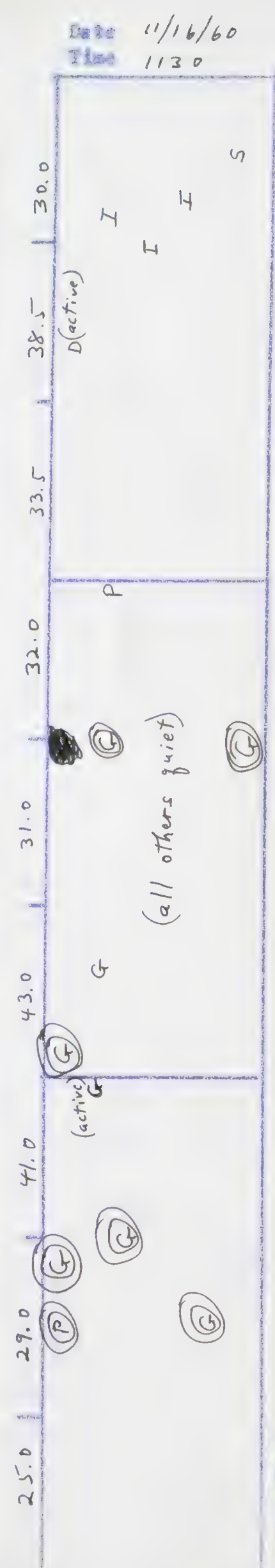
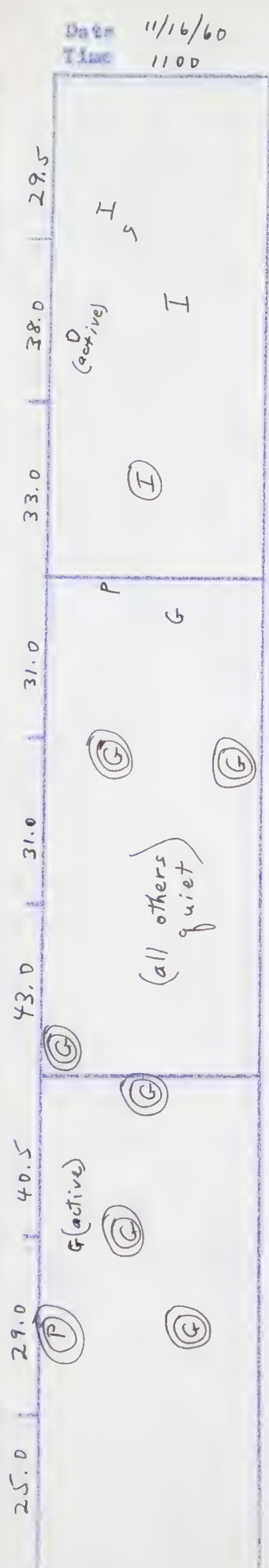
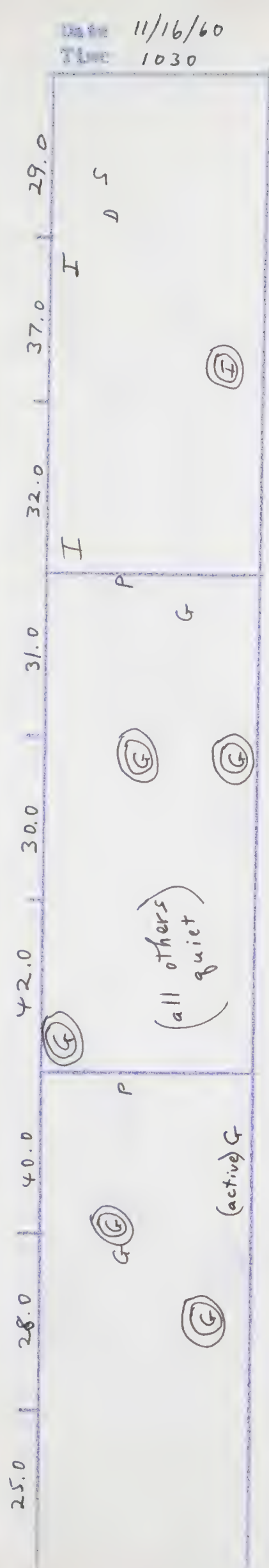
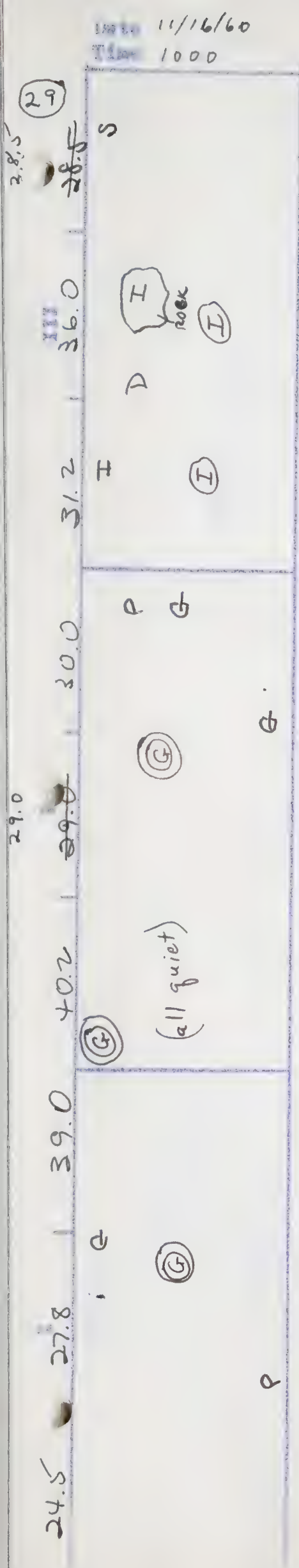
1913

1910

1911

1912

1913



<p>(active)</p> <p>I I I</p>	<p>I</p>
<p>P</p> <p>(all others quiet)</p>	<p>G</p>

A hand-drawn diagram on a 3x3 grid. The grid is divided into three vertical sections by two vertical lines. The top section contains the letters 'I', 'D(Active)', and 'I' in the first, second, and third rows respectively. The middle section contains the letter 'P' in the first row, and the text '(all others quiet)' in the second and third rows. The bottom section contains the letter 'G' in the first row, and the text '(quiet)' in the second and third rows. There are also several circled 'G's scattered throughout the grid, including one in the top right, one in the middle right, one in the bottom right, and one in the bottom left.

[illegible][illegible]

31.0

31

26.5

h
o
m

42.0

510

32.4

Q
M
M

37

U
o
n

24

Date 11/16/80
Time 1400

26.5

30.5

42.0

45. D

32-5-

33.0

345

11

3

Date 11/16/60
Time 1430

27.0

31.0

42.5

45.5

33. D

33 D

350

2

23

Date 11/16/60
Time 1500

27.0

31.0

42.5

46.0

330

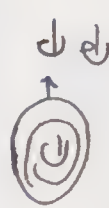

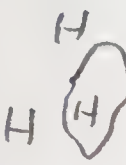
33.0

20

2

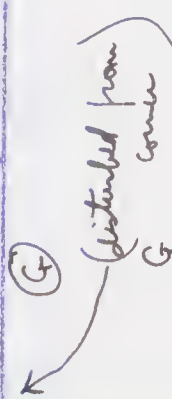

DATE 11/16/60
TIME 1530

[illegible]

27.0	31.2	42.5	46.0	33.0	35.0°	40.3	32.0	32.0
 <p>(all quiet)</p>			 <p>(all quiet)</p>		 <p>(several active)</p>			

	27.0	31.0	42.5	46.0	33.0	35.0	40.5	32.0
			G 	 		I	(all are active) I	 I
				(all quiet)				

[illegible]

26.0	30.0	35.0	41.5	31.0	30.0	32.0	35.0	30.0
26.0	30.0	35.0	41.5	31.0	30.0	32.0	35.0	30.0
			 <p>(disturbed from corner) G</p>	 <p>II</p>				

G (active)

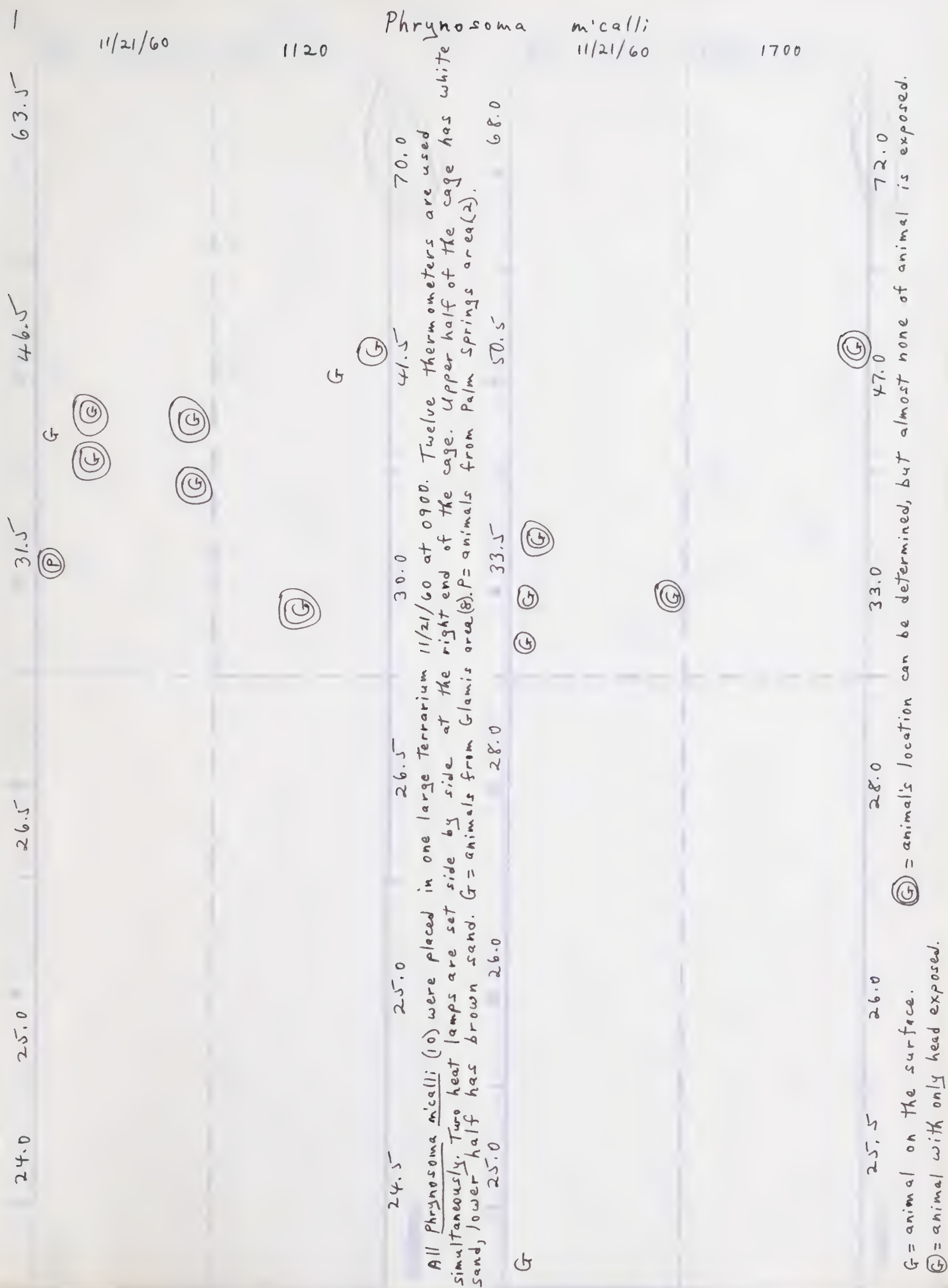
Date 11/18/60
Time 1020

31.0	35	30.0	I	I
31.5	31.5	32.0	G	
31.5	31.5	32.0	(active)	G
31.5	31.5	32.0	G	
31.5	31.5	32.0	(P) G	
31.5	31.5	32.0	43.5	
31.5	31.5	32.0	40.0	
31.5	31.5	32.0	(P)	
31.5	31.5	32.0	G	
31.5	31.5	32.0	(G)	
31.5	31.5	32.0	29.0	
31.5	31.5	32.0	G (active)	
31.5	31.5	32.0	25.5	

Date
Time

Date
Time

Date
Time



Phrynosoma m'calli
11/21/60

11/21/60

1120

1700

24.5 25.0 26.5 30.0 41.5 70.0
All Phrynosoma m'calli (10) were placed in one large Terrarium 11/21/60 at 0900. Twelve thermometers are used simultaneously. Two heat lamps are set side by side at the right end of the cage. Upper half of the cage has white sand, lower half has brown sand. G = animals from Glamis area (8). P = animals from Palm Springs area (2).

G

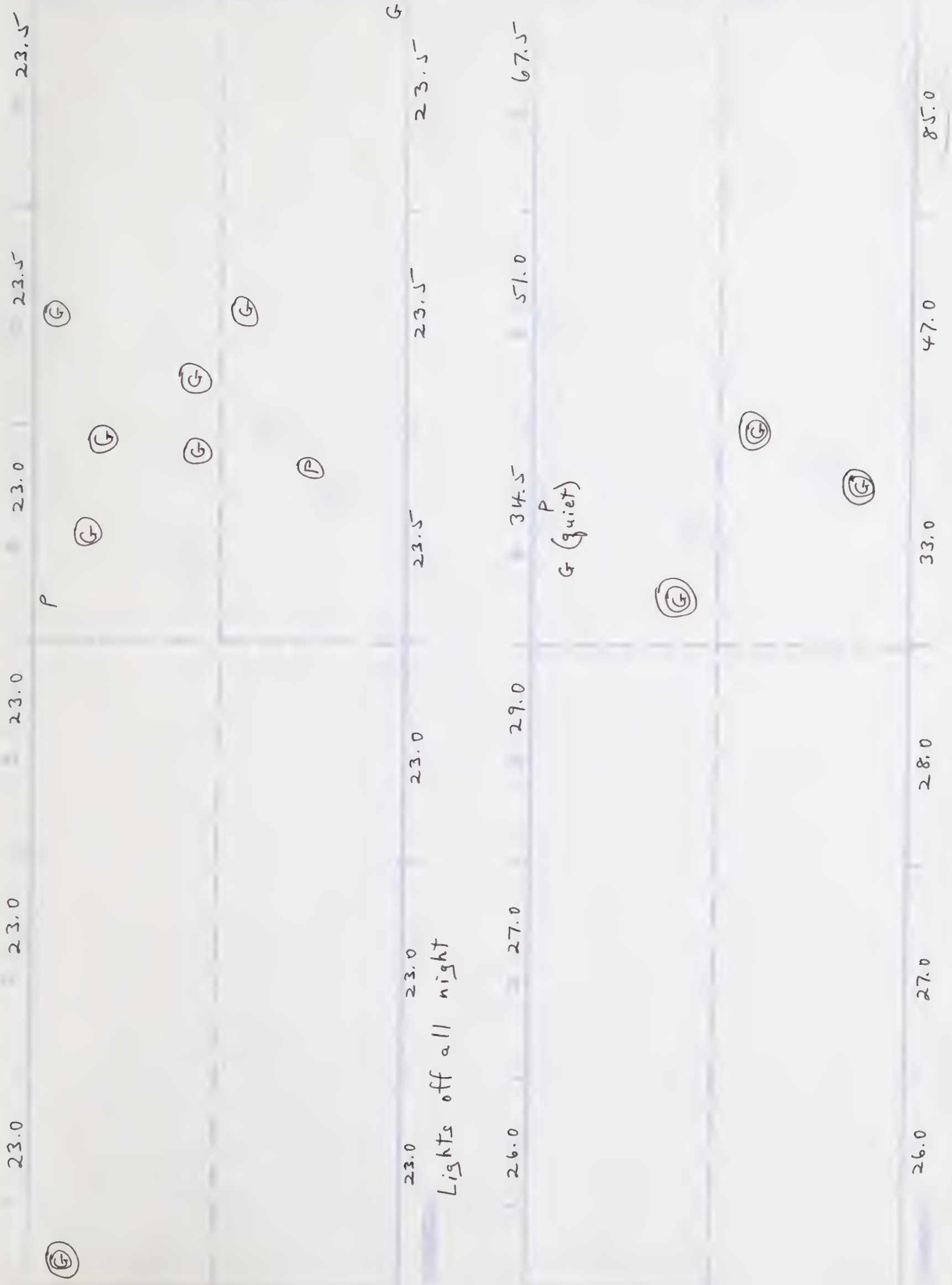
25.5 26.0 28.0 33.0 47.0 72.0
G = animal on the surface.
(G) = animal's location can be determined, but almost none of animal is exposed.
(G) = animal with only head exposed.

11/22/60

0815

Phrynosoma m'calli
11/22/60

1300



27.0

28.0

29.5

35.5

53.0

70.0

W

11/22/60

1700

Phrynosoma m'calli

11/23/60

0845

27.0

28.0

29.5

35.0

49.0

88.0

23.0

23.5

23.0

23.0

23.4

23.8

23.0

23.5

23.0

23.5

24.0

23.5

P (quiet)
G

G

G

G

G

G

G

G

P

G

G

G

G

P

Lights on at 0815.

24.0

24.5

25.0

28.0

37.0

39.0

4

11/23/60

0845

Phrynosoma m'calli

11/23/60

0905

G

P

G

G

G

G

G

24.0

24.0

25.0

26.5

31.5

53.5

24.0

25.0

26.5

30.0

41.0

42.5

G

G (both active)

G

P

G

(several active)

G

G P G

24.5

25.0

26.0

28.0

35.0

63.5

25.0

26.0

28.0

33.0

47.0

58.5

5

11/23/60

1000

Phrynosoma m'calli

11/28/60

0810

25.5

26.0

27.5

31.0

41.5

76.5

Lights off for previous 4 days. Lights on at 0810.

G (quiet)

(P)

(G)

(G)

(G)

19.0

19.5

19.0

18.5

19.0

18.5

(G)

(G)

(G)

P

G

(G)

G

G (G)

19.0

19.0

19.0

19.0

19.0

19.0

19.0 20.0 20.5 21.5 26.0 24.5 6

11/28/60

0825

Phrynosoma m'calli

11/28/60

1200

(some are active)

G

P

G

G

P

G

36.0

21.5

20.0

20.0

19.5

19.5

22.5

24.0

26.0

31.0

42.0

63.0

G

G

G

G

P

P

G

G

G

G

25.0

23.0

23.0

42.0

79.0

23.0 24.5 26.5 32.0 48.5 65.5 7

11/28/60

1355

Phrynosoma m'calli
11/28/60

1715

P G

G

G

G

G G

P

31.0

26.0

24.0

23.5

81.0

44.5

G

25.0

26.5

32.0

23.5

47.0

65.5

G P G

G

24.0

24.5

26.0

31.5

40.5

76.0

Lights off at 1710.

22.5 23.0 23.5 25.0 29.0 36.0 8

11/28/60

G

G

G

P

G

1900

Phrynosoma m'calli

11/29/60

G G

0830

G G

22.5

23.0

23.5

26.0

31.5

36.0

Lights off at 1710.

21.0

22.0

22.0

22.0

22.0

22.0

G

G

P

21.5

22.0

22.0

22.0

22.0

22.0

Lights on at 0830.

P

G

22.0

23.0

23.0

24.0

29.5

27.5

9

11/29/60

0840

Phrynosoma m'calli
11/30/60

0800

G

G

G

G

G

P

P

(G)

G

G

22.0

22.0

22.5

23.0

25.0

39.5

Lights on at 0830.

22.0

22.0

22.0

22.0

22.5

23.0

P

G

G

G

(G)

P

G

22.0

22.0

22.0

22.5

23.0

23.0

All quiet.

(G)

G

G

11/30/60

0822

Phrynosoma m'calli

11/30/60

1130

43.5

31.0

25.0

23.5

23.0

22.0

G

G

G

G

P

P

G

G

G

G

30.5

26.0

24.0

23.0

23.0

22.5

Lights on at 0808. All quiet.

65.0

50.0

34.0

29.0

27.0

26.0

G G G G G

P

G

G G

82.0

44.5

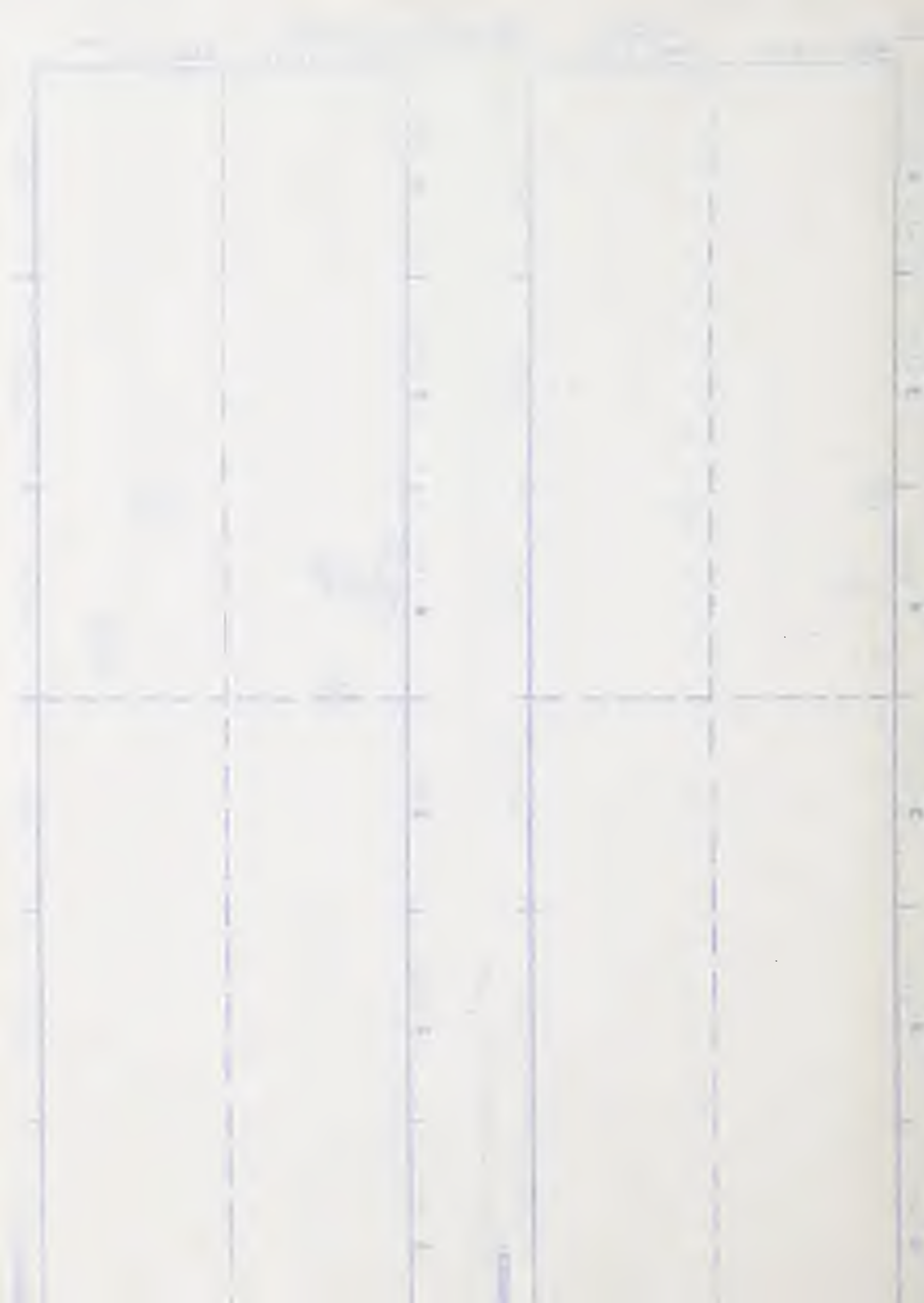
32.5

28.0

26.5

26.0

All quiet.



11

11/30/60

1300

Phrynosoma m'calli
11/30/60

1550

70.0

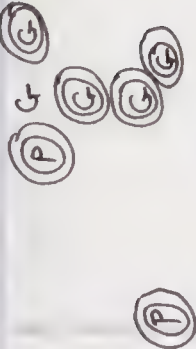
49.5

34.0

29.0

27.0

26.0



83.0

48.0

33.5

28.0

27.0

26.0

All quiet.

71.5

50.5

35.0

29.0

27.0

26.0



84.5

49.0

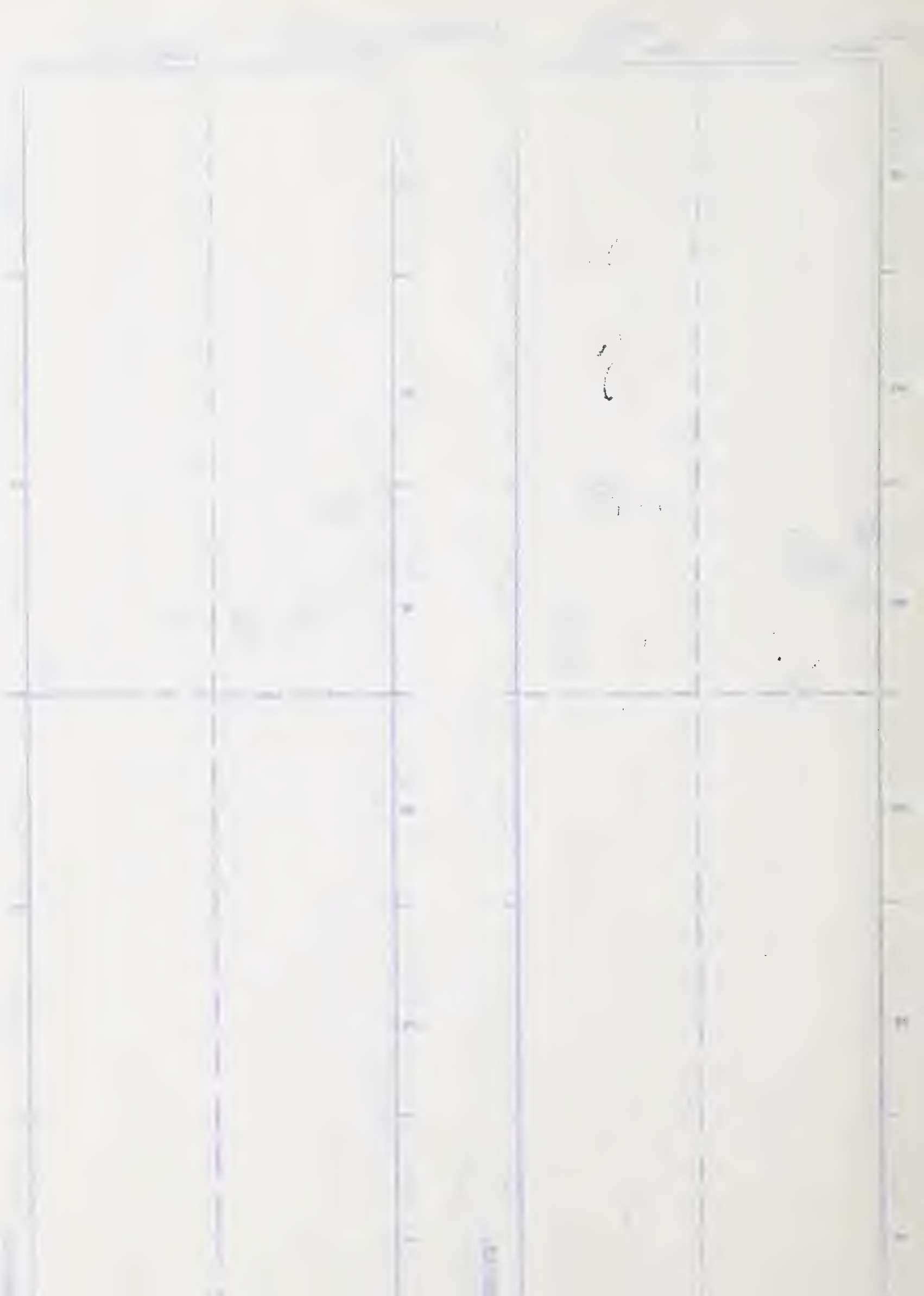
34.5

28.5

27.0

26.0

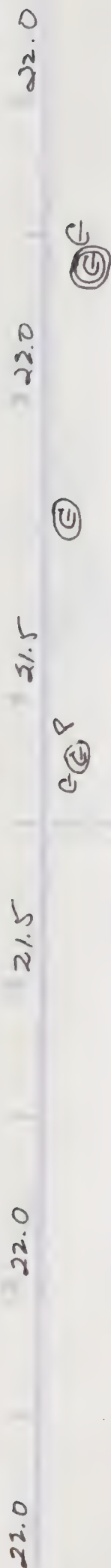
All quiet.



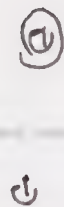
0815

Phrynosoma m'calli
12/1/60

0920



ⓓ



2

ۛ

(5)

Q



G (active)

Lights on at 0910. Several are moving about.



12/1/60

1110

Phrynosoma m'calli
12/2/60

0808

65.0

51.0

34.0

28.5

26.0

25.0

G

G

G

P

G

G

G

G

G

27.0

25.5

25.0

All quiet.

33.0

44.0

74.0

23.5

24.0

24.0

23.5

24.0

24.0

G

G

G

G

P

P

G

G

G

G

23.5

24.0

23.5

24.0

24.0

24.0

Lights on at 0820. All quiet.



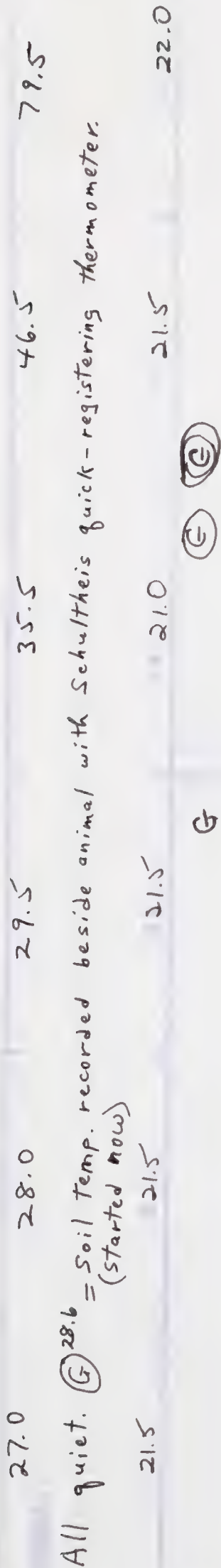
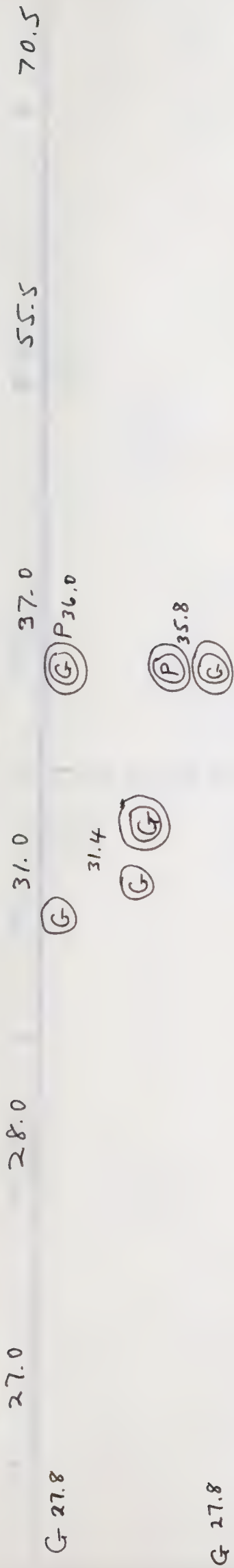
14

12/2/60

1135

Phrynosoma m'calli
12/5/60

0810



All quiet. $G^{28.6}$ = Soil Temp. recorded beside animal with Schultheis quick-registering thermometer.
(started now)



Lights on at 0810 after being off 2 days.



15

12/5/60

0910

Phrynosoma m'calli

12/5/60

1250

54.0

44.0

30.0

26.0

24.0

23.0

(G) 41.4

P 32.8

(G) 26.0

(G) 37.5

(G) 24.0

31.2

x

(G) x

G

G 23.0

(G)

23.0

23.5

25.0

27.0

37.0

59.5

2 animals moved (---x) while readings were being taken. Otherwise, all were quiet.

24.5

25.0

28.0

35.0

54.0

67.0

P (G) 31.5

(G) 35.0

(G) 36.8

G 24.5

(G) 24.8

(P) 35.0

24.0

24.5

26.5

33.5

47.0

75.0

All quiet.

12/6/60

0820

Phrynosoma m'calli
12/6/60

1155

21.0

21.0

21.0

21.0

21.5

21.0

P [redacted] (G) (G) (G)

G

(G) (G) 12 WATER DISH

P

G

(E)

21.0

21.5

21.0

21.5

21.5

21.5

24.5

26.0

29.0

35.0

54.0

69.0

P 32.6

(G) 38.0

G 35.2
G

(G) 30.6
G

25.6 (G)

25.0

25.5

27.5

P (G) 33.0

34.0

49.0

74.0

All quiet.

25.0

26.0

29.5

36.0

56.0

72.0

17

12/6/60

1515

Phrynosoma m'calli
12/7/60

0810

P G

G

P

G

G

G

25.5

26.0

28.5

36.0

51.0

76.5

#8 found dead at hot end of cage at 1650. Now there are 9 animals left.

22.0

22.0

22.0

22.0

22.0

22.0

P G G

G

G

G

G

G

22.0

22.0

22.0

22.0

22.0

22.0

All quiet. Lights will not be turned on again for a month or two.

18

12/7/60

GG

1330

Phrynosoma m'calli

12/7/60

1550

G

G

24.0

23.5

23.0

P G

23.0

23.0

23.0

G

G

24.0

23.5

23.0

23.0

23.0

23.0

P

G

All quiet.

25.0

24.0

23.5

23.0

23.0

23.0

G

P G

G

G

24.5

24.0

23.5

23.0

23.0

23.0

P

G

19

12/8/60

0830

Phrynosoma m'calli
12/8/60

1350

22.0

22.0

22.0

22.0

22.0

22.0

G

PG

G

G

G

G

G

22.0

22.0

22.0

22.0

22.0

22.0

All quiet.

P

22.0

22.0

22.0

22.0

22.0

22.0

G

PG

G

G

22.0

22.0

22.0

22.0

22.0

22.0

All quiet.

P

22.0

220

22.0

23.0

22.0

20

5

6

9

6

6

12/15/60

G

0810

2

٦

22.0

22.0

22. D

22.0

22.0

22.0

None of the animals have been really active since the lights were turned off 12/7/60. They shift positions occasionally, but that is all.

5.45

47.0

36.0

31.0

29.0

28.5

39.4

(Brown Sand)

37.8

(white sand)

1455

59.0

51.5

37.0

32.6

30.5

29.5

4 animals left—all from Glamis. These animals have started to be somewhat active again. All of them ~~eat~~ eat now. New light arrangement completed today. White sand in lower area, brown sand in upper area.)

32.0

29.0

26.0

24.0

23.0

23.0

7

5

1/18/61

12

4

0835

37.5

34.0

#4 has reddish horns & spots on top of head (♂)

#5 is largest (♂)

25.5

24.0

#7 has purple feet (♀)

#12 has creamy back (♀)

23.5

23.0

All active at 0830.

44.5

39.0

30.0

26.5

25.0

24.5

12 7 (C)

36.8

Phrynosoma m'calli
1/18/61

0945

51.0

42.5

31.0

27.0

26.0

25.0

(C)
33.0

34.0

31.0

28.0

27.0

25.5

25.0

22

1/23/61

0835

Phrynosoma m'calli

1/23/61

1305

40.0

36.0

28.0

26.5

26.0

25.5

54.0

44.0

34.0

30.0

28.0

28.0

58.5

48.5

35.5

31.5

30.0

28.5

5 (active)

7

31.2

35.6

12 35.0

7
G
G
35.2

G
33.0

23

1/24/61

1130

Phrynosoma m'calli

1/24/61

1700

27.0

28.0

30.0

32.0

39.0

51.0

12
35.0

28.0

29.0

30.0

33.0

44.5

54.0

All were active when lights were turned on at 0830.

28.0

28.5

30.5

33.0

43.0

55.0

4
7 12.5
37.2

29.0

30.0

32.0

35.0

47.0

58.0

23.0

23.0

23.0

23.0

23.0

23.0

24

12

(G)

7

1/26/61

(G)

0810

23.0

23.0

All quiet. Lights on at 0810.

23.0

23.0

23.0

23.0

44.5

35.5

30.5

28.0

26.5

26.0

(G) 35.0

(G) 31.5

(G) 34.8

Phrynosoma m'calli

1/26/61

1015

49.5

41.5

31.0

29.0

27.0

26.0

All were active for about an hour after lights were turned on. Only #12 active now.

23.5
4

23.5

23.5

23.5

23.5

23.5

25

5

1/27/61

0800

23.5

23.5

23.5

23.5

23.5

23.5

None active when lights turned on at 0800.

49.5

38.0

31.0

29.0

28.0

27.0

35.0

G

36.2

G

33.8

12

G

34.4

52.5

44.5

32.0

30.0

28.0

27.0

None active.

Phrynosoma m'calli
1/27/61

1115

26

1/31/61

0835

Phrynosoma m'calli
1/31/61

0915

24.0

24.5

25.0

12
25.0
(active)

26.0

28.0

7
31.2
(quiet)

35.0

5
30.0
(active)

37.0

33.0

26.0

25.0

24.5

24.0

Lights on at 0800.

42.5

34.0

29.0

27.0

26.0

25.5

7
27.8

5 4 12
34.0 32.2

45.5

38.5

29.0

27.0

26.0

25.5

54.0

41.0

32.0

29.0

27.0

26.5

27

1/31/61

1330

Phrynosoma m'calli

1/31/61

1645

56.5

46.0

33.0

30.0

28.5

27.0

54.5

42.0

32.0

29.0

27.5

26.5

37.0

36.2

37.0

emerged at 1655

57.0

47.0

34.0

30.5

29.0

27.5

3 of them are active, 4th one emerged + became active. #5 displayed for #12.

34.0

29.0

26.0

25.0

24.5

24.0

28

2/1/61

0840

Phrynosoma m'calli

2/1/61

1045

33.0
12 4 5

26.8

7

37.0

33.0

26.0

25.0

24.5

24.0

Lights on at 0800. 3 are active.

51.0

39.0

32.0

29.5

28.5

28.0

G

38.6

12

34.0

G

33.6

31.8

7

54.0

45.0

33.0

30.0

29.0

28.0

None active.

29

2/1/61

1545

Phrynosoma m'calli
2/1/61

1645

55.0

42.5

33.5

30.0

28.5

28.0

5

34.2

41.0
4

35.0
12

37.2

7

58.0

48.0

35.0

32.0

30.0

29.0

3 are active.

55.5

43.0

33.5

30.0

28.5

28.0

36.0
5

4

36.0
7

58.0

48.0

35.0

32.0

30.0

29.0

3 are slightly active. #5 vibrated and crawled over #4.

40.0

31.0

27.0

25.5

24.0

23.5

30

2/22/61

0940

Phrynosoma m'calli
2/22/61

1110

5 ① 12
33.4 30.4

32.8
4 (active)

44.0

38.0

28.0

27.0

25.0

24.0

Lights on at 0805.
#1 added to cage 2/3/61. All are active at some time of day.

49.0

36.0

29.0

27.0

25.0

25.0

36.0 ① 12 5
36.0 4
34.0

①
35.8

52.0

42.5

30.0

28.0

26.5

25.0

All quiet.

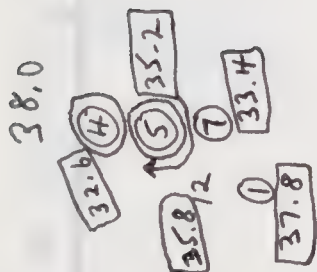
31

2/22/61

1210

Phrynosoma m'calli
2/22/61

1350



54.0
All quiet.

54.0

39.0

31.5

28.5

27.0

27.0

56.0

47.0

33.0

30.0

28.5

27.5

32

2/22/61

1515

Phrynosoma

m'calli;
2/22/61

1605

54.5

40.0

32.0

29.0

27.5

27.0

5 (active)

41.5

(sat here ~ 2 min)

37.6
33.0

57.0

47.5

34.0

30.5

29.0

28.0

55.0

4 (active)

45.0

40.5

32.0

29.0

27.5

27.5

5 (active)

37.0

33.2

39.8
37.6

57.0

48.0

34.0

31.0

29.0

28.0

55.5

40.0

$\frac{4}{37.4}$

$\frac{7}{32.0}$

12

30.0

32.0

28.0

28.0

33

2/22/61

1705

57.0

48.0

34.0

31.0

29.5

28.5

22.0

22.0

22.0

21.0

21.0

21.0

⑤

⑥

Phrynosoma

m'calli

2/24/61

0855

4

1

22.0

22.0

22.0

21.0

21.0

21.0

⑦

Lights on at 0855.

32.5

28.0

25.5

25.0

23.0

22.0

34

2/24/61

1000

Phrynosoma

m'calli;
2/25/61

1545

27.6
7

7

12

4 ← (active) → 5

36.0

32.0

28.0

27.5

23.5

22.0

56.0

40.5

31.5

29.0

27.0

27.0

38.8

35.8

39.2
12

35.8
4

57.5 48.0

34.0

30.0

28.0

27.5

All quiet. #7 seems to be getting weaker and weaker. It hasn't acted just right since its hind legs and tail were burned by the UV lamp. #445 became active while I was taking these readings.

56.0

1 (active)

41.0

5 (active)

32.0

29.0

27.0

27.0

35-

4 (active)

2/25/61

1620

7

58.0

48.0

34.0

30.5

28.0

28.0

#5 vibrated rapidly beside #1, who simply buried in the sand. #5 ignored #1 after that. All but #7 are moving about the cage.

21.0

21.0

21.0

21.0

21.0

21.0

(G)

(G)

Phrynosoma m'calli
2/27/61

(G)

(1)

21.0

21.0

21.0

21.0

21.0

21.0

0810

#7 found dead this morning.

Lights on at 0810.

36

2/27/61

0835

Phrynosoma m'calli
2/27/61

1200

31.0

26.0

23.0

22.0

21.0

21.0

5
30.4

1
32.2

12
31.0

4
32.6

34.5

29.0

24.0

22.0

21.0

21.0

57.0

37.0

28.5

25.5

24.0

23.0

5
35.4

①
37.2
12

④
33.6

53.0

43.5

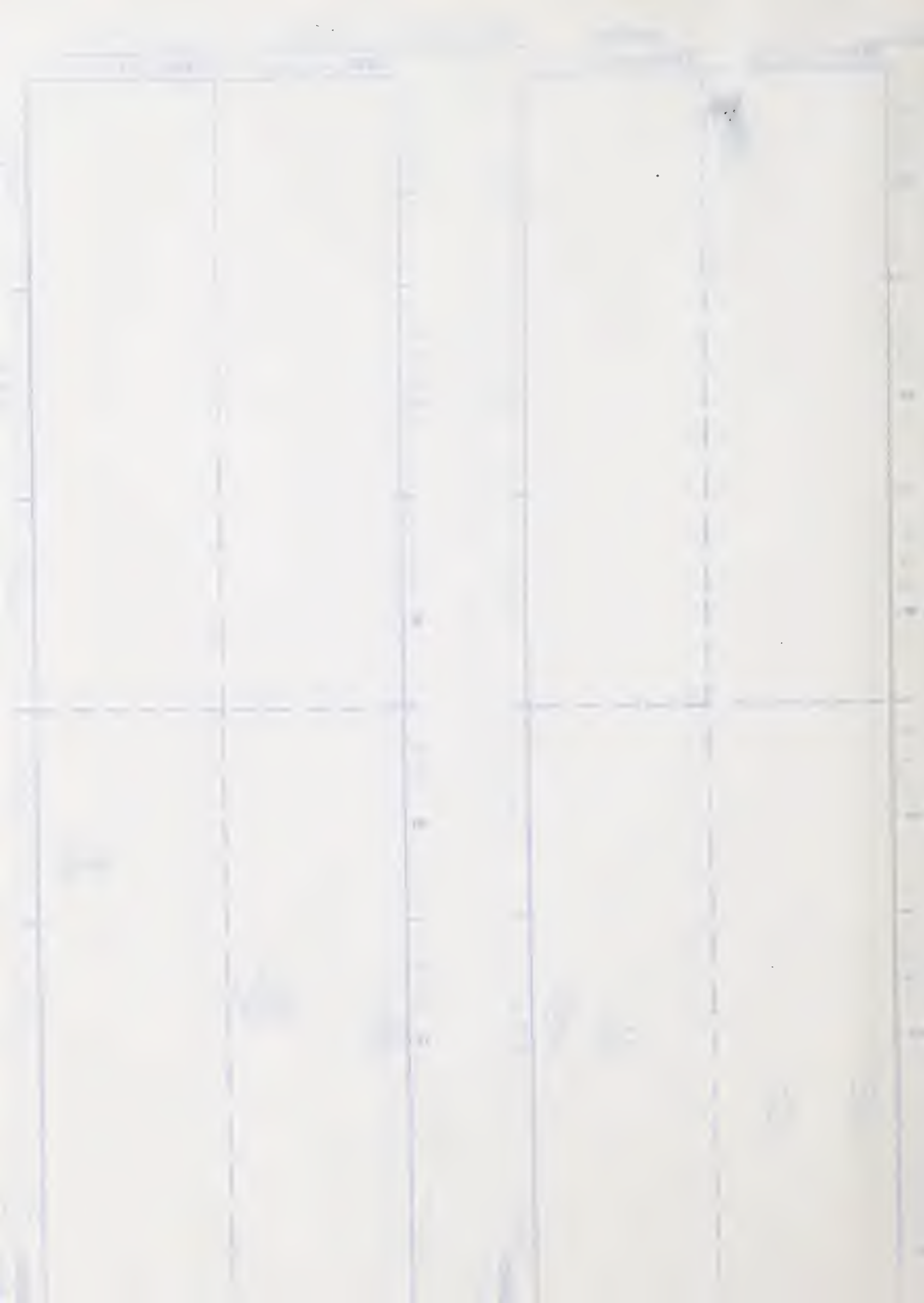
30.0

26.5

24.5

24.0

All quiet.



54.0

39.0

30.0

26.5

25.0

24.0

37

2/27/61

1645

Phrynosoma m'calli

2/27/61

2045

38.2
4

↑
(active)
↓

38.2
5

34.0

12

①

30.2

56.0

46.0

31.5

27.5

25.5

24.5

#5 vibrated rapidly in front of #4, then walked across the back of #4.
#1 emerged and became active at 1650, #12 became active at 1655.

26.0

25.0

24.0

23.5

23.0

23.0

Ⓔ

Ⓔ

Ⓔ

26.0

25.0

24.0

23.5

23.0

23.0

Overhead lights on at 1935.

Heat lamps on at 2045.

42.0

33.0

27.0

25.0

24.0

23.0

38

2/27/61

125
34.2

4
36.2

2/25

44.0

36.0

28.0

25.0

24.0

23.5

3 were active.

28.0

26.0

24.5

24.0

23.0

23.0

26.0
26.0

(active)

Phrynosoma m'calli

2/27/61

2320

28.0

27.0

24.5

24.0

23.5

23.0

Heat lamps off at 2135. #1 ate a mealworm at 2320.

39

2/28/61

0810

Phrynosoma m'calli

2/28/61

0905

22.0

22.0

22.0

22.0

22.0

22.0

G
G

G

①

22.0

22.0

22.0

22.0

22.0

22.0

Lights on at 0812.

39.0

4
34.4

30.0

26.0

24.5

23.0

23.0

5
36.0

39.0

33.0

26.5

26.0

24.0

23.0

12
34.4
①

#4 + 5 were quite active, #12 moved about some.

70

2/28/61

1110

Phrynosoma m'calli

2/28/61

1120

51.0

36.5

28.5

26.0

24.5

24.0

34.6
5

37.4
1

33.0
12

52.0

42.5

29.5

27.0

25.0

24.0

All quiet.

51.0

36.5

28.5

26.0

24.5

24.0

34.6
5

37.4
1

33.0
12

52.0

42.5

29.5

27.0

25.0

24.0

41

① 32.2

2/28/61

1335

12
37.8

32.0

31.5

32.0 31.5
Cage reversed at 1330 so that

27.5

29.0

34.0

29.0 34.0 44.0
the door and white sand • nearest file cabinets.

47.0

35.0

30.0

29.0

33.0

36.0

5 4 37.6

Phrynosoma m'calli

2/28/61

1415

12 33.8

40.0

36.5

29.0

285

31.0

36.0

All quiet.

28.0

(active)

37.6

24.0

23.5

22.5

22.0

22.0

42

3/1/61

0808

4 (active)

34.0

26.2
12 (active)

26.0
1 (active)

26.0

25.0

22.0

22.0

22.0

22.0

Lights on at 0800. All but #1 were completely hidden when the lights were turned on 8 min. ago.

52.0

37.0

29.0

26.0

24.5

24.0

G

36.0

G

G

32.0

32.8
12

45.5

39.5

29.0

26.0

25.0

24.5

All quiet.

Phrynosoma m'calli
3/1/61

1105

43

3/1/61

1330

Phrynosoma m'calli

3/1/61

1400

55.0 39.0 30.0 27.0 25.0 24.5



36.8
12

48.0 42.0 30.0 27.0 26.0 25.0

All quiet. #12 standing with belly off the ground and eyes closed.

55.0 39.0 30.0 27.0 25.0 24.5



36.8
12

48.0 42.0 30.0 27.0 25.0 25.0

All

55.5

39.0

⑤
37.0

30.0

27.0

25.0

24.5

44

3/1/61

1430

Phrynosoma m'calli
3/1/61

1530

33.8
④

26.0
⑫

31.4
1 (active)

49.0 42.0

25.5

26.0

27.5

30.5

#1 is leaning on its right elbow on the sand, then it moves about the cage.
No change at 1500.

56.0

40.0

5 (active)
38.0

31.0

27.5

25.5

25.0

4 39.6
① emerged at 1538

34.4
⑫

49.0

43.0

31.0

27.5

26.0

25.5

57.0

40.0

31.0

27.5

26.0

25.0

45

3/1/61

39.0
5

40.2
4

1610

35.8 (12) emerged at 1615.

50.0

43.0

31.0

28.0

27.0

26.0

All active at 1620.

57.0

40.0

31.0

27.5

26.0

25.0

39.0
(12)

36.0
(1)

30.8 (active)

5

38.0
4

1700

50.0

43.0

31.0

28.0

27.0

26.0

H6

3/1/61

2010

Phrynosoma m'calli
3/1/61

2335

23.0

24.0

26.0

29.0

38.5

(G)

12 (active)

34.0

(G)

34.0
1 (active)

48.0

41.5

29.5

26.0

24.5

24.0

Heat lamps have been on since 0800, overhead lights have been off since 1700.

55.0

39.0

29.0

26.0

24.0

23.0

5 (D)

38.0

(4)
35.8

(12)
23.8

48.0

41.5

29.5

26.0

24.5

24.0

Overhead lights turned on again at 2015.
All quiet at 2335.

47

3/2/61

0800

(12)

Phrynosoma m'calli
3/2/61

0820

(12)
22.5

22.0

22.0

22.0

22.0

22.0

22.0

(5)

(4)

(1)

22.0

22.0

22.0

22.0

22.0

22.0

All lights out at 2345 on 3/1/61. Lights on at 0805.

26.0

24.5

25.5

25.0

24.0

22.5

(5) emerged 0825.
(active)

1 (active)

4 (active)
25.6

25.5

25.0

25.0

26.0

24.0

22.5

43.0

32.0

28.0

26.0

24.5

23.5

48

4
32.6

1
29.2

5
36.8

3/2/61

0915

38.0

34.0

27.0

26.0

25.0

24.0

All basking.

50.0

31.0

29.0

26.0

25.0

24.0

(active)/2
33.0

5
34.0

11.8
4

Phrynosoma m'calli
3/2/61

1020

44.0

38.5

28.5

26.5

25.5

24.5

PHRYNOSOMA M'CALLI
 (TEMPERATURE TAKEN OF SOIL BESIDE LIZARD WITH
 SCHULTHEIS QUICK-REGISTERING THERMOMETER)
 11/2/60

°C TEMP	ON SURFACE	HEAD OUT	BENEATH SURFACE
18			
19			
20			
21			
22		I	
23	III	II	
24	I	I	I
25	I		I
26	III	I	II
27			I
28	III		I
29	I	I	I
30	II	III	II
31	III III		III
32	III	III	II
33	III III	II	III
34	III II	II	III III
35	III	II	III III
36	III	III	III
37	III III	III	III III
38	III	III	II
39	III		III
40	II	I	
41	II		I
42			
43			
44			
45			
46	I		
47			

No. 504

PHRYNOSOMA M'CALLI

(7/2/60 - 11/1/60)

10/24 10/5/60

°C TEMP	ON SURFACE	HEAD OUT	BENEATH SURFACE
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			



No good

PHRYNOSOMA M'CALLI

11/2/60 - 3/2/60

°C OF SURFACE	TEMP	ON SURFACE	HEAD OUT	BENEATH SURFACE
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28			
	29			
	30			
	31			
	32			
	33			
	34			
	35			
	36			
	37			
	38			
	39			
	40			
	41			
	42			
	43			
	44			
	45			
	46			
	47			
	48			
	49			
	50			
	51			
	52			
	53			
	54			
	55			
	56			
	57			
	58			
	59			
	60			

Uma spp.

Uma spp.

No. of Animals in Terrarium

	Date	No.	Date	No.	Date	No.	Date	No.	Date	No.
U. notata	3/1/61	16	3/23/61	15	3/31/61	14	4/6/61	14	4/10/61	10
U. inornata	"	16	"	16	"	16	"	15	"	18
U. scoparia	"	10	"	9	"	9	"	9	"	21
Total	"	42	"	40	"	39	"	38	"	49

U. notata	4/20/61	20
U. inornata	"	18
U. scoparia	"	21
Total	"	59

Number of Uma Above Ground in Terrarium

1.

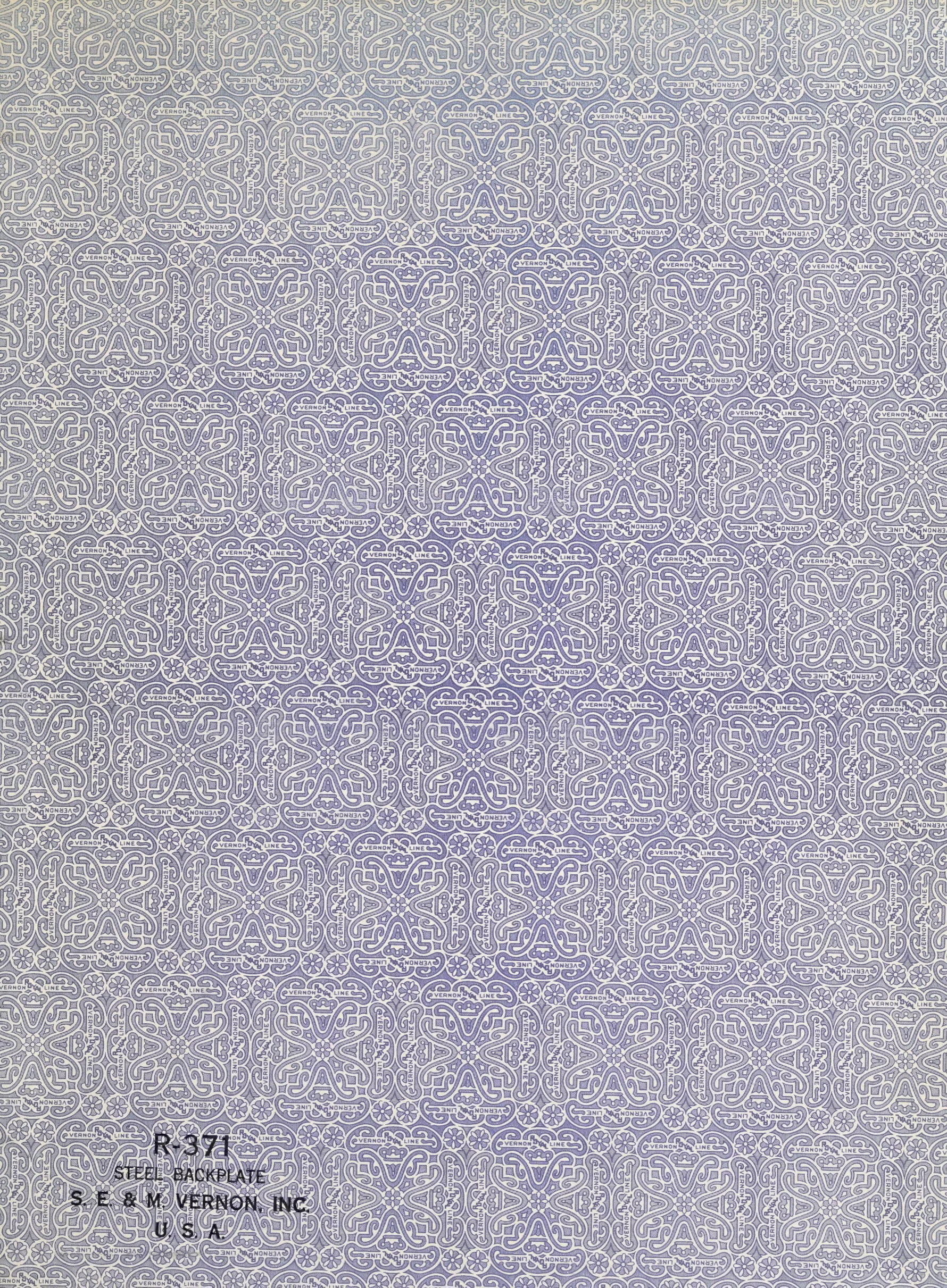
Date	Time	TEMP.(°C.)		NUMBER			Total	No. Heads	Remarks
		Min.	Max.	notata	inornata	scoparia			
3/1/61	1115	32.0	47.0	2	4	1	7		
"	1200	32.5	47.0	1	3	1	5		
"	1330	33.0	48.0	1	3	1	5		
"	1400	33.5	49.0	6	4	1	11		
"	1430	34.0	49.0	5	6	4	15		
"	1500	34.0	49.0	5	8	3	16		
"	1530	34.0	49.0	8	8	4	20		
"	1610	34.0	49.0	5	6	4	15		
"	1630	34.0	49.0	6	4	4	14		
"	2010	30.5	43.5	2	2	1	5		Lights on since 0800; overheads off at 1700
"	2335	30.0	43.5	2	1	1	4		
3/2/61	0800	22.0	22.0	4	3	2	9	17	
"	0820	24.0	29.0	11	10	9	30		Lights on - 0805
"	1015	31.0	45.0	11	7	5	23		
3/6/61	0815	22.0	22.0	0	2	0	2	9	Lights on - 0820
"	0930	29.0	40.0	6	9	5	20		
3/9/61	1325	32.5	48.0	1	5	2	8	1	
3/10/61	0800	22.0	22.0	4	4	1	9	7	
"	0813	23.0	28.0	9	10	8	27		Lights on - 0805
"	0825	24.5	31.0	12	13	9	34		Just feed
"	1155	33.5	48.0	1	1	1	3	5	
"	1640	33.5	49.0	7	5	2	14		
3/14/61	1235	32.5	47.0	0	2	1	3		
3/15/61	1300	34.0	48.5	3	0	1	4	1	
3/23/61	0815	22.0	22.0	4	0	1	5	19	
"	0820	22.5	23.5	10	8	4	22	2	Lights on - 0815
"	0900	29.0	33.0	8	9	6	23	3	Fed - 0910
"	0930	30.0	37.5	7	7	5	19	1	
"	1000	31.5	41.0	4	7	3	14	1	
"	1130	34.0	45.0	4	1	2	7	2	

Date	Time	TEMP. (°C)		NUMBER			Total	No. Heads	Remarks
		Min.	Max.	notata	inorneta	scoparia			
3/23/61	1200	24.0	41.0	4	2	1	7	0	
"	1230	25.0	41.5	3	1	2	6	0	
"	1425	28.0	48.0	5	4	1	9	2	
3/24/61	0835	21.0	28.0	15	11	7	33	0	Lights on - 0830.
"	1410	31.5	47.5	6	5	7	18	0	
3/30/61	0800	22.0	22.0	6	3	4	13	7	Lights on - 0800.
"	0830	22.5	23.5	14	7	7	28	3	Fed at 0815.
"	0920	31.0	38.0	8	7	4	19	1	
"	1005	33.0	42.5	4	4	2	10	1	
"	1100	34.0	45.0	3	4	2	9	2	
"	1130	34.0	45.5	3	3	2	8	2	
"	1200	34.0	46.0	3	2	0	5	1	
"	1230	34.0	46.5	3	2	0	5	2	
"	1300	34.0	46.5	3	3	0	6	0	
"	1330	34.0	47.0	3	4	1	8	0	
"	1400	34.5	47.0	3	4	1	8	1	
"	1430	34.5	47.0	4	6	2	12	1	
"	1500	35.0	47.0	7	8	5	20	0	
"	1530	35.0	47.0	7	9	3	19	1	
"	1400	35.0	47.0	7	6	4	17	0	
"	1430	35.0	47.5	4	5	3	12	0	
"	1500	35.0	47.5	5	3	2	10	2	
"	2015	25.0	25.5	0	1	0	1	0	Lights off - 1700. overhead lights on - 2015. (No heat lamps on)
"	2130	24.0	24.5	0	1	0	1	0	
"	2345	23.5	24.0	0	1	0	1	1	
3/31/61	0810	22.5	22.5	5	4	1	10	10	overheads only - 0810.
"	0815	22.5	22.5	9	11	5	25	1	Heat lamps on - 0820.
"	0835	29.0	29.5	9	12	8	29	0	Fed at 0845.
"	0900	29.0	33.5	9	8	7	24	0	
"	0925	30.5	37.5	7	7	8	22	0	

Date	Time	TEMP. (°C)		NUMBER			Total	No. Heads	Remarks
		Min.	Max.	notata	inornata	scoparia			
3/31/61	1115	33.0	44.5	3	3	4	10	1	
"	1135	33.5	45.0	2	3	2	7	1	
"	1200	33.5	45.0	1	2	3	6	1	All quiet & basking.
"	1230	34.0	46.0	1	1	2	4	3	" "
"	1300	34.0	46.0	1	1	2	4	3	" "
"	1330	34.0	46.0	3	2	2	7	0	" "
"	1400	34.0	46.5	4	3	2	9	0	Several moving about.
"	1435	34.5	47.0	4	6	3	13	1	most are active.
"	1500	34.5	47.0	5	6	4	15	0	" " "
"	1530	34.5	47.0	6	6	6	18	1	" " "
"	1600	34.5	47.0	7	6	3	16	0	several " "
"	1630	35.0	47.0	9	2	3	14	1	" " "
"	1700	35.0	47.0	6	5	1	12	0	" " "
4/5/61	1300	33.0	47.0	1	1	1	3	2	none active
"	1415	33.5	47.5	3	5	3	11	1	several active
"	1430	34.0	48.0	3	5	2	10	1	" "
"	1500	34.0	48.0	3	6	5	14	0	" "
"	1530	34.0	48.0	8	5	4	17	0	" "
"	1600	34.0	48.5	4	6	3	14	0	" "
"	1650	34.5	48.5	5	6	3	14	2	" "
"	1700	34.5	49.0	4	6	2	12	1	" "
4/6/61	0810	21.5	22.0	2	4	2	8	10	lights on - 0810 none
"	0815	22.0	23.0	9	11	4	24	3	several "
"	0830	28.0	28.0	12	13	6	31	0	" "
"	0900	28.0	34.0	11	6	4	21	1	" "
"	1010	30.5	42.0	4	4	0	8	1	" "
"	1030	31.0	43.0	3	5	2	10	3	" "
"	1135	32.5	46.0	2	4	0	6	4	none "
"	1200	33.0	47.0	2	4	1	7	2	" "
"	1230	33.0	47.0	4	3	0	7	2	2 "

Date	Time	TEMP.(°C.)		NUMBER			Total	No. Heads	Remarks
		Min.	Max.	notata	inornata	scoparia			
4/6/61	1300	33.5	47.5	2	2	0	4	3	2 active
"	1330	34.0	47.5	5	5	2	12	1	several "
"	1400	34.0	47.5	4	6	4	14	0	" "
"	1430	34.0	49.0	5	6	5	16	2	" "
"	1500	34.0	49.0	7	5	2	14	2	" "
"	1530	34.0	49.0	6	7	2	15	1	" "
"	1600	34.5	49.5	9	7	3	19	3	" "
"	1630	34.5	49.5	10	7	3	20	0	" "
"	1700	34.5	49.5	9	6	3	18	0	" "
"	1945	33.5	49.0	6	1	2	9	0	overhead lights off-1830. none active heat lamps on since 0810.
"	2220	25.0	27.0	0	asleep on surface	0	1	1	" " off-1955. overheads on since 1945.
4/7/61	0810	22.0	23.0	3	1	2	6	12	Lights on-0810
"	0815	23.0	26.0	8	7	4	19	5	Many active
"	0818	23.0	26.5	10	9	5	24	4	" "
"	0820	24.0	28.5	11	10	7	28	2	" "
"	0850	29.0	36.0	11	6	7	24	1	" "
"	0920	30.0	40.0	9	7	5	21	2	" "
"	1010	32.0	44.0	7	3	3	13	1	several "
"	1110	34.0	47.0	5	3	3	11	2	" "
"	1130	34.0	48.0	3	2	3	8	2	none "
"	1200	35.0	48.0	3	1	0	4	3	" "
"	1230	35.0	49.0	4	1	1	6	1	" "
"	1455	36.0	50.5	5	5	3	13	2	some "
4/13/61	0810	22.0	23.0	3	2	2	7	5	NONE ACTIVE.
"	0820	23.0	28.0	9	8	7	24	0	SEVERAL ACTIVE.
"	1500	35.0	47.0	3	8	8	19	2	" "
4/18/61	0810	21.5	21.5	2	4	3	9	7	Lights on-0810
4/20/61	0850	28.0	36.0	10	9	12	31	6	Lights on-0805
4/21/61	0815	22.0	22.5	5	2	6	13	9	Lights on-0815
"	1110	32.0	46.0	4	1	4	9	3	

Date	Time	TEMP. (°C.)		NUMBER			Total	No. Heads	Remarks
		Min.	Max.	notata	inornata	scoparia			
4/21/61	1210	33.5	47.0	4	1	1	6	2	None active
"	1300	34.0	47.5	6	3	4	13	1	" "
4/24/61	0810	22.0	22.0	0	0	0	0	8	Lights off since 4/20/61. Lights on - 0810
"	0815	22.0	25.0	2	3	1	6	10	
"	0820	23.0	27.0	6	7	3	16	4	All quiet, soaking up heat
"	0835	24.0	30.0	9	14	10	33	2	Most are active
"	1010	31.0	44.0	10	5	2	17	4	Few active
"	1030	31.5	45.0	7	7	2	16	2	" "
"	1100	32.0	46.0	11	4	3	18	0	" "
4/25/61	0800	22.0	22.0	0	0	2	2	16	Lights on - 0800 None "
"	0810	22.5	26.5	8	9	6	23	2	Few "



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